EAST SEARCH

2/23/06

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2 5	COTO COTO	ocardi ouilg	
S2 <u>v</u>	3461 3461	((digital of data) near2 communication) with (equalization of modulation of "symbol interferent US-PGPUB; USPAT; S1 and (constellation\$1 or channel\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_IDB
S3	116	S2 and (channel\$1 near2 gain)	EPO; JPO; DERWENT; IBN
\$ 2	6	S2 and (reliable near2 symbol\$1)	EPO; JPO; DERWENT;
S5	48	S2 and (constellation\$1 near2 (size or point\$1 or square or general or order or axis or estimal US-PGPUB; USPAT	EPO; JPO; DERWENT;
S6	22	S3 and S5	EPO; JPO; DERWENT;
S7	578	S3 or S5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S8	ω	S7 and (sample\$1 with reliability)	EPO; JPO; DERWENT;
S9	2	S2 and (reliable near2 sample\$1)	EPO; JPO; DERWENT;
S10	ω	S7 and (reliability with (threshold or limit))	EPO; JPO; DERWENT;
S11	œ	S2 and (sample\$1 with reliability)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S12	19	S2 and (reliability with (threshold or limit))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S13	ω 4	S2 and (sample\$1 with (constellation\$1 near2 point\$1))	EPO; JPO; DERWENT;
S14	4	S7 and (sample\$1 with (priorit\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S16	19	S2 and (constellation\$1 with reliability)	EPO: JPO: DERWENT
S17	103	S2 and (distance with (constellation\$1 near2 point\$1))	EPO; JPO;
S18	103	S7 and S17	EPO; JPO; DERWENT;
S19	თ	\$3 and \$17 ::	EPO; JPO; DERWENT;
S21	0	S2 and ((constellation\$1 near2 ring) with width)	EPO; JPO; DERWENT;
S22	7	S2 and (constellation\$1 with width)	EPO; JPO; DERWENT
S23	88	S2 and (sample\$1 with window\$1)	EPO; JPO; DERWENT
S24	122	S2 and ((reliable near2 symbol\$1) or ((channel\$1 near2 gain) and (constellation\$1 near2 (sizi US-PGPUB; USPAT;	EPO; JPO; DERWENT
S25	183	\$18 or \$23	EPO; JPO; DERWENT
S26	39	S24 and S25	EPO; JPO; DERWENT,
S27	122	S24 or S26	USPAT; EPO; JPO; DERWENT;
S28	29	. or "6,556,634".pn. or "6,570,910".pn. or "6,438,174".pn. or "6,757,299".pn. or "	USPAT; EPO; JPO; DERWENT;
S29	_	S27 and S28	USPAT; EPO; JPO; DERWENT;
S15	თ	S2 and (sample\$1 with (priorit\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
S30	ð	S23 and S24	JPO; DERWENT;
S20	_	S2 and (constellation\$1 near2 governing)	; EPO; JPO; DERWENT;
S31	5279	with (equalization or modulation or "symbol interference	USPAT, EPO, JPO, DERWENT,
2 6	5		COPAT, EPO, UPO, DENAVENT,
200	ā	SSZ and (Chambels Fredry Gain)	COTAT, EFC, SFC, DEXVENT,
2.34 4.04	487	onstellation\$1 near2 (size or point\$1 or square or general or order or axis or estimates)	USPAT, EPO, JPO, DERWENT
S35	581		USPAT; EPO; JPO; DERWENT; IBN
S36	5	S32 and (distance with (constellation\$1 near2 point\$1))	USPAT; EPO; JPO; DERWENT;
S37	105	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

\$78 \$79 \$80	S75 S76	S66 S74	262 262	S60	S59	25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5	S73	S51	S72	S71	S70	S 000	S67	S65	S63	S57	S61	S 50	20 C	S53	S50	\$49	S48	S46	S45	S44	S43	S42	S41	S40	S38 S39
226 1990 26	5675 455	329284	υ œ	· =	7 8	л <u>6</u>	68	26	267	- -	٠ ٥	<u>.</u>	431	0	თ	1928	273	§ 2	20	16	1984	83 5	226	5657	328782	10	7	123	40	187	90 123
S76 and S77 S74 and (channel near2 gain) S78 and S79	S74 and constellation near2 size) S75 and (constellation near2 size) S75 and (constellation near2 size)	S46 and ((scale\$1 near2 value) with (constellation near2 point)) ((digital or data or mobile) near2 communication)	S46 and (("two dimensional" or "two-dimensional") near2 sample) S46 and (prioritiz\$3 with sample\$1)	S47 and (magnitude near2 constellation near2 point)	S47 and (maximum near2 constellation near2 point)	S47 and (square near2 constellation)	S47 and S50	S49 and S50	S49 or S51 or S52 or S53 or S54 or S55 or S56 or S59 or S60 or S62 or S63 or S64 or S66 c	S45 and (governing near2 constellation)	S46 and (governing near) constellation)	Se7 and (distance with (constellation nearz points)) with (limit of thershold))	S46 and (distance with (constellation near2 point\$1))	S46 and (prioritiz\$3 with (constellation near2 point))	S62 and S57	S46 and (constellation near2 point)	S47 and (sample)	S47 and (constellation near2 axis)	S47 and (general near2 constellation)	S47 and (rectangular near2 constellation)	S45 and (channel near2 gain)	S47 and S48:	S46 and (constellation nearz size)	S45 and constellation	((digital or data or mobile) near2 communication)	S38 and S39	S32 and (sample\$1 with (priorit\$5))	S39 or S41	S39 and S40	S37 or S38	S32 and (sample\$1 with window\$1) S32 and (sample\$1 with window\$1) S32 and ((reliable near2 symbol\$1) or ((channel\$1 near2 gain) and (constellation\$1 near2 (si; US-PGPUB;
US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	USPAT; EPO; JPO; USPAT; EPO; JPO;	USPAT: EPO: JPO: DERWENT:	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB US-PGPUB: USPAT; EPO; JPO; DERWENT; IBM_TDB	USPAT; EPO; JPO; DERWENT;	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	USPAT; EPO; JPO; DERWENT;	USPAT; EPO; JPO; DERWENT;	US-PGPUB; USPAT; EPO; JPO; DERWENT;	US-PGPUB; USPAT; EPO; JPO	USPAT: EPO: JPO: DERWENT:	US-PGPUB: USPAT: EPO: JPO: DERWENT: IBM_TDB	USPAT: EPO: JPO; DERWENT:	USPAT; EPO; JPO;	USPAT; EPO; JPO; DERWENT;	USPAT; EPO; JPO; DERWENT;	USPAT; EPO; JPO; DERWENT	USPAT: EPO; JPO; DERWENT	בל ס ס	USPAT; EPO; JPO; DERWENT;	USPAT; EPO; JPO;	USPAT; EPO; JPO; DERWENT	USPAT: EPO: JPO: DERWENT	IIS_BOBILB: IISBAT: EDO: IBO: DERWENT: IBM_TOB	USPAT, EPO, JPO, DERWENT	USPAT; EPO; JPO; DERWENT	USPAT; EPO; JPO; DERWENT	USPAT; EPO; JPO; DERWENT	USPAT; EPO; JPO; DERWENT;	USPAT: EPO: JPO:	USPAT: EPO: JPO: DERWENT:	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

Results of search set S95: Document Kind Codes Title US 20050135466 A1 Meth US 20050129147 A1 Meth US 20050128938 A1 Chan US 20050123061 A1 Multic US 2005013121 A1 Appa US 20050084029 A1 Appa US 20050074070 A1 Syste US 20050058215 A1 Deco US 20050058213 A1 Bit all US 20050036565 A1 Meth		09/899,852	S101 5				5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				S95 267												S83 2	S82 1	S81 6
% <u>0</u>			_																	N			20	6	Ö
Title Method for accurate estimation of noise for data modems Method and system for modulating and detecting high datarate symbol communications Channel estimation and synchronization with preamble using polyphase code Multidimensional signal modulation and/or demodulation for data communications Apparatus, and associated method, for communicating communication data in a multiple-inpu Full-diversity, full-rate complex-field space-time coding for wireless communication Apparatus and method for mode transition of a transmit diversity scheme in a mobile commun System and method for adapting to a change in constellation density while receiving a signal Decoding upstream V.92-encoded signals Bit allocation among carriers in multicarrier communications Adaptive modulation for multi-antenna transmissions with partial channel knowledge Methods and devices for decoding signals containing noise and distortion	EAST SEARCH	Eilon Riess	S75 and (estimat\$3 near2 "channel gain")	S/5 and (estimat\$3 near2 (constellation near2 size))	and ((Scale) Friedz Value) with (constellation rearz point))	OTA OTA (FIGURE OF THE CONTROL OF TH	S75 and (prioritiz\$3 with sample\$1)	OTE and ("they dimensional" or they dimensional") need completely	S76 and (square near2 constellation)	and S79	or S85 or S87 or S88 or S89 or S90 or S91 or	S75 and (governing near) constellation)	S75 and (distance with (constellation near2 point\$1) with (limit or thershold))	S75 and ((scale\$1 near2 value) with (constellation near2 point))	S75 and (prioritiz\$3 with sample\$1)	S89 and S86	S75 and (("two dimensional" or "two-dimensional") near2 sample)	S76 and (magnitude near2 constellation near2 point)	S76 and (maximum near2 constellation near2 point)	and	S75 and (constellation near2 axis)	S76 and (constellation near2 order)	S76 and (general near2 constellation)	S76 and (rectangular near2 constellation)	S76 and (square near2 constellation)
<u>s</u>	2/23/06		DERWENT;		ETO, JPO, DEXVENT	בייס, טייס, טייטאריאי,	US-PGPUB: HISPAT: EPO: JPO: DERWENT: IBM TOR	EDO: IBO: DEBWENT: IBM	USPAT: EPO: JPO:	USPAT: EPO: JPO: DERWENT:	EPO: JPO: DERWENT: IBM	USPAT EPO JPO DERWENT	USPAT: EPO: JPO: DERWENT:	EPO: JPO: DERWENT:	USPAT: EPO: JPO: DERWENT: IBM	EPO: JPO: DERWENT:	EPO: JPO: DERWENT:	USPAT; EPO; JPO; DERWENT;	EPO: JPO: DERWENT:	EPO: JPO: DERWENT: IBN	EPO: JPO: DERWENT:	EPO: JPO: DERWENT:	EPO; JPO; DERWENT;	EPO; JPO; DERWENT; IBM	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

US 20040001448 A1 System			US 20040001561 A1 Method			21				US 20040039983 A1 Process				<u>₽</u>	2			<u>₽</u>	<u> </u>			20040151256 A1		20040190649 A1	US 20040 194000 At Aigebra		20040252632 A1							20050010855 A1	US 20050031097 A1 Gatewa	000000000000000000000000000000000000000
	System and method for transmitting highly correlated preambles in QAM constellations	Apparatus, and associated method, for performing joint equalization in a multiple-input, multip	Soft slice: III a Hydria decision reception and processing of 4-level and 8-level sign:	Method and apparatus for hybrid decision feedback equalization Soft slices in a hybrid decision feedback equalization	Method and system for implementing a sigma delta analog-to-digital converter	Wireless communication system having error-control coder and linear precoder	Receivers, methods, and computer program products for an analog modem that receives data	Method and system for determining relative positions of networked mobile communication dev	Orthogonal code division multiple access on return link of satellite links	Process for modulation and determination of the bit loading on a transmission channel. Method and apparatus for deperating a 64 state 4-D trailis code in DMT.	MIMO WLAN system	QAM receiver and method for constellations having at least sixteen symbols	Combining precoding with spectral shaping	Carrier interferometry coding with aplications to cellular and local area networks	Gain control for a high definition television demodulator	Constellation mapping apparatus and method	CDMA transceiver techniques for wireless communications	Rsse optimization using hardware acceleration	Equalisation apparatus and methods	Data transmission/reception apparatus and method for achieving both multiplexing gain and c	Software adaptable high performance multicarrier transmission protocol	Apparatus and method for transmitting and receiving data in a mobile communication system	Signal estimation methods and apparatus	Joint adaptive control of equalization, synchronization, and gain in a digital communications r	Trollie interference and feedback proceder	Alcebraic geometric code adopted to error bursts	Method and apparatus for multi-user multi-input multi-output transmission	Off-line broadband network interface	Demodulation for phase modulation	Method and system for data rate optimization in a digital communication system	Algorithm for computing distances to a received point in an ADSL system	Space-time-frequency coded OFDM communications over frequency-selective fading channe	Data re-transferring method based on bit transformation	voice and data exchange over a packet based modulation.	Gateway with voice Voice and data exchange over a packet based network with timing recovery	
	20040101 370/280		20040122 373/233				20040212 375/350			20040226 /14//58		20040513 375/261	20040520 375/353		20040610 348/726		20040624 370/320							20040930 375/326	20040930 714/782						20041230 708/490		20050106 375/261	20050127 373/333	20050210 379/93.31	

20020131441 A1 20020118340 A1 20020105928 A1 20020090035 A1 20020080886 A1 20020075830 A1 20020057717 A1 20020057713 A1 20020051501 A1	20030021358 A1 20030002593 A1 20030002593 A1 20020181389 A1 20020172212 A1 20020163932 A1 20020141493 A1 20020136317 A1	20030076889 A1 20030067992 A1 20030063664 A1 20030063654 A1 20030063657 A1 20030039217 A1 20030039217 A1		20030215023 20030210750 20030206559 20030202612 20030198288 20030198000 20030189976 20030185319 20030161258 200301651258
Method of determining an end of a transmitted frame in a frame-based communications network. Range-extending system and spatial filter for enhancing hartmann-shack images and associate Method and apparatus for interference suppression in orthogonal frequency division multiplex. Super-orthogonal space-time trellis codes, and applications thereof. Method for selecting frame encoding parameters in a frame-based communications network. Adaptive modulation for fixed wireless link in cable transmission system. Method of sharing information among a plurality of stations in a frame-based communications. Method for selecting frame encoding parameters to improve transmission performance in a frame-based communications. We selecting frame encoding parameters to improve transmission performance in a frame-based communications.	128-Ary signal constellations suitable for non-linear amplification M-ary signal constellations suitable for non-linear amplification Channel estimation for wireless OFDM systems Method and system for increasing data throughput in communications channels on an opport Method of providing synchronous transport of packets between asynchronous network nodes Distinguishing between final coding of received signals in a PCM modem Block coding for multilevel data communication	Constellation mapping for modulated communications Optimal trellis code design for QPSK and higher order quadrature amplitude modulations Adaptive thresholding for adaptive equalization Space-time transmit diversity Space-time transmit diversity Apparatus and method for transmitting/receiving uplink transmission power offset and HS-DS Apparatus and method for transmitting/receiving uplink transmission power offset and HS-DS Apparatus and method for transmitting/receiving uplink transmission power offset and HS-DS	Carrierless backwards compatible data neworking transmitter, receiver, and signal format Carrier based backwards compatible data neworking transmitter, receiver, and singal format Orthogonal frequency division multiplexing system with differing control parameters correspor Orthogonal frequency division multiplexing system with superframe synchronization using cor Linear space-time block code with block STTD structure QUADRATURE VESTIGIAL SIDEBAND DIGITAL COMMUNICATIONS METHOD Voice and data exchange over a packet based network with timing recovery Voice and data exchange over a packet based network with fax relay spoofing Multi-frequency data transmission channel power allocation Method and apparatus for detection and decoding of signals received from a linear propagatic Method and apparatus for detection and decoding of signals received from a linear propagatic	Multi-dimensional fractional number of bits modulation scheme Multiple input, multiple output system and method Method of determining a start of a transmitted frame in a frame-based communications netwo Method and system for rate enhanced SHDSL Modems, methods, and computer program products for selecting an optimum data rate using Distinguishing between final coding of received signals in a PCM modem PCM upstream data transmission server Modified branch metrics for processing soft decisions to account for phase noise impact on cl Apparatus, and associated method, for a multiple-input, multiple-output communications syste Turbo code based incremental redundancy
		20030424 375/261 20030424 375/265 20030410 375/265 20030403 375/232 20030403 375/130 20030313 375/267 20030227 370/318 20030227 375/150	20030821 375/295 20030821 370/419 20030814 370/208 20030814 370/208 20030807 370/209 20030731 332/103 20030724 375/326 20030619 370/352 20030501 714/755 20030424 375/264	

US 6693958 B1 US 6693958 B1 US 6690736 B1 US 6668014 B1	6744814 6715124	US 6757859 B1	6765931	6778597	6788236	US 6804267 B1	6816548	6819719	6823002	6850493	6850577	6868072	US 6870888 B1	6877043	6882634	6888844	6891881	6891896	US 6898204 B2	US 6904082 B2	US 6909755 B2	US 6914934 B1				US 20020006136 A1	20020012343	US 20020026523 A1	30020031130	US 20020034263 A1	US 2002003/055 A1	20020041570	US 20020042836 A1	US 20020044073 A1	US 20020044610 A1
Apparatus and method for transmission of voice band signals over a DSL line Adaptive channel equalizer having a training mode Bit allocation in a transmission system Equalizer method and apparatus using constant modulus algorithm blind equalization and par	Method and apparatus for reduced state sequence estimation with tap-selectable decision-fee Trellis interleaver and feedback precoder	Parallel turbo trellis-coded modulation	Gateway with voice	Distinguishing between final coding of received signals in a PCM modem	Method and system for implementing a sigma delta analog-to-digital converter	Transceiver training for DSL modems under TCM-ISDN interference Method and apparatus for interference suppression in orthogonal frequency division multiples	HDTV channel equalizer	Method to transfer trellis code modulated digital data over a digital subscriber line, and related	Linear block interleaver for discrete multi-tone modulation	Off-line broadband network interface	Voice and data exchange over a packet based network with timing recovery	Home phone line network architecture	Bit allocation among carriers in multicarrier communications	Method for distributing sets of collision resolution parameters in a frame-based communicatio	Method for selecting frame encoding parameters to improve transmission performance in a fra	Method for selecting an operating mode for a frame-based communications network	Method of determining an end of a transmitted frame in a frame-based communications netwo	Embedded signal constellations	Method of determining a collision between a plurality of transmitting stations in a frame-based	DSL rate adaptation	Method and system for increasing data throughput in communications channels on an opport	Multiplier-free methods and apparatus for signal processing in a digital communication system	Constellation mapping apparatus and method	Method to transfer trellis code modulated digital data over a digital subscriber line, and related	Method of determining a collision between a plurality of transmitting stations in a frame-based	Method for selecting an operating mode for a frame-based communications network	Transceiver method and signal therefor embodied in a carrier wave for a frame-based commi	Method for distributing sets of collision resolution parameters in a frame-based communication	Websel and mentod of data communication for the transport of the transport	Wireless communications System and method of data communication using turbo trallic goded modulation combined with	System and method of data communication using trellis coded modulation or turbo trellis code	Method for providing dynamic adjustment of frame encoding parameters in a frame-based cor	Method of enhancing network transmission on a priority-enabled frame-based communication	System and method for Huffman shaping in a data communication system	DSL rate adaptation
20040309 370/465 20040217 375/232 20040210 375/260 20031223 375/232	20040601 375/232 20040330 714/792	20040629 714/755		20040817 375/222	20040907 341/155	20041012 370/524	20041109 375/233		20041123 375/219								20050510 375/143	20050510 375/264					20050712 365/230.03					20020307 3707235		20020321 375/299			20020411 709/232		20020418 375/261

20001226 375/285	Method and apparatus for variably allocating upstream and downstream communication spec	US 6167095 A
20010123 375/222	Constellation design for a PCM modem	US 6178200 B1
	Distinguishing received A-law and .mulaw signals in a PCM modem	6181737
	Translation table design for a PCM modem	US 6185249 B1
	Digital subscriber line modem initialization	US 6219378 B1
	Non-invasive digital cable test system	US 6233274 B1
	Automatic constellation phase recovery in blind start-up of a dual mode CAP-QAM receiver	US 6259743 B1
	Off-line broadband network interface	US 6266350 B1
	Turbo code termination	US 6266795 B1
20010807 375/222	Robbed bit signaling identification in a PCM modem	US 6272171 B1
20010821 375/224	Non-invasive digital cable test system	US 6278730 B1
20011009 375/346	Methods and systems for symbol estimation in a receiver	US 6301315 B1
20011016 375/222	Interference detection and avoidance technique	US 6304594 B1
20011030 375/220	DSL rate adaptation	6310909
	Decision feedback equalizers, methods, and computer program products for detecting severe	US 6341360 B1
	Turbo code symbol interleaver	US 6351832 B1
	Apparatus and method for digital data transmission using orthogonal codes	US 6356555 B1
	System for acquiring, processing, and storing video data and program guides transmitted in d	US 6366326 B1
20020423 375/354	Method, system, and apparatus for unambiguous phase synchronization	US 6377639 B1
20020430 375/222	Modems, methods, and computer program products for falling back to a lower data rate proto-	US 6381267 B1
20020507 375/228	Non-invasive digital cable test system	US 6385237 B1
20020514 375/222	Adaptive frequency domain equalizer circuits, systems, and methods for discrete multitone be	US 6389062 B1
20020514 375/222	Modems, methods, and computer program products for identifying a signaling alphabet in var	
	Computer method and apparatus for modem point slicing	US 6421394 B1
20021015 370/468	Digital subscriber line framing structure supporting imbedded rate adaptive synchronous and	US 6466586 B1
	Serial-concatenated turbo codes	US 6473878 B1
	Modems, methods, and computer program products for recovering from errors in a tone rever	US 6487243 B1
20021126 375/222	System and method for transmitting special marker symbol	US 6487244 B1
20030107 370/352	Voice and data exchange over a packet based network with fax relay spoofing	US 6504838 B1
	Coding scheme for cable modems	US 6549584 B1
	Voice and data exchange over a packet based network with timing recovery	US 6549587 B1
20030506 375/222	Distinguishing between final coding of received signals in a PCM modem	US 6560277 B2
20030520 351/212	Range-extending system and spatial filter for enhancing Hartmann-Shack images and associa	US 6565209 B2
	Method and system for the transmission, reception and processing of 4-level and 8-level sign:	US 6567475 B1
	Two-dimensional constellation generation, pruning, and partial gray coding for bandwidth and	US 6567477 B1
	128-ary signal constellations suitable for non-linear amplification	US 6574285 B2
	Method and device for generating signal constellations in PCM space for high speed data cor	US 6577683 B1
	Quadrature vestigial sideband digital communications method	US 6606010 B1
20030812 375/242	Channel coding in the presence of bit robbing	US 6606355 B1
	Dual-carrier heterodyne for separating orthogonal components of complex amplitude-modulat	US 6608869 B1
20031125 710/305	High speed computer bus system with bi-directional transmission medium and interface devic	US 6654846 B1
20031209 375/227	MODEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR SELECTING AN O	US 6661837 B1
20031216 375/225	MODEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR SELECTING AN O	US 6665336 B2

US 5724396 A	US 5742622 A		US 5751701 A	US 5774500 A	5793759	US 5793807 A		US 5835/31 A				US 5862184 A	US 5940440 A	5946045		US 5970093 A	US 5986596 A	US 5987069 A	US 5991308 A	US 6005840 A	6005893	US 6005897 A		US 6026120 A	US 6031873 A	US 6047175 A	US 6061393 A	US 6075816 A	US 6088389 A	US 6097764 A	US 6101223 A	US 6115433 A	US 6130894 A	US 6131180 A	US 6137829 A	US 6141378 A	US 6154871 A	US 6157678 A		US 6167034 A
Demoquiation of quadrature amplitude modulation signals Signal processing system	Error detection and correction system for a stream of encoded data	Quantizing and decoding of phase-amplitude modulated signals in hexagonal code	Rate adaptive digital subscriber line ("RADSL") modem	Multi-channel trellis shaper	Apparatus and method for digital data transmission over video cable using orthogonal cyclic c	Multimodulus blind egalization using piecewise linear contours	Signal processing system	Technique for improving the blind convergence of a two-filter adaptive equalizer	Spectral and power shaping mapper for high data rate signalling	Simultaneous analog and digital communication using partitioning of bits into words	Simultaneous analog and digital communication using fractional rate encoding	Mapper for high data rate transmission through channels subject to robbed bit signalling	Generalized multimodulus technique for blind equalization		System for acquiring and processing video data and program guides transmitted in different c	Fractionally-spaced adaptively-equalized self-recovering digital receiver for amplitude-Phase	Concise storage and expansion of signal constellations in PCM space for high speed data cor	Method and apparatus for variably allocating upstream and downstream communication spec	Lower overhead method for data transmission using ATM and SCDMA over hybrid fiber coax	Complementary encoding and modulation system for use in an orthogonal frequency division	Reduced complexity bit allocation to subchannels in a multi-carrier, high speed data transmiss	Data communication system and method therefor	Method and device for generating signal constellations in PCM space for high speed data cor	System and method for using circular constellations with uncoded modulation	Nested shell mapping	Wireless communication method and device with auxiliary receiver for selecting different char	Non-invasive digital cable test system	Windowing technique for blind equalization	System and method for training a plurality of equalizers and a modem employing the system (Pragmatic trellis-coded modulation system and method therefor	System and method for optimizing the uncoded modulation of circular constellations using circ	Adaptively-equalized digital receiver with carrier tracking	Off-line broadband network interface	Trellis coded modulation system	System and method for transmitting special marker symbols	Fractionally-spaced adaptively-equalized self-recovering digital receiver for amplitude-phase I	Error detection and correction system for a stream of encoded data	Probabilistic trellis/coded modulation with PCM-derived constellations	Communication system utilizing Reed-Solomon code to achieve auto frame synchronization a	Rate adaptive digital subscriber line (RADSL) modem
19980303 375/355				_			19980811 375/326	19981110 3/5/235			19990112 375/298	19990119 375/295	19990817 375/231					19991116 375/285						20000215 375/261	20000229 375/259	20000404 455/452.1					20000808 375/261		20001010 370/421	20001010 714/790	20001024 375/222	20001031 375/232				20001226 370/281

NN9410693 NN9409581 US 20050036565 A US 20040258172 A DE 19962162 A	US 4771438 A US 4713817 A	US 4847797 A US 4827431 A	US 4891806 A	US 4980897 A	US 5029185 A	US 5058136 A US 5042052 A	US 5067139 A	US 5119403 A	US 5185763 A	US 5222077 A	US 5258987 A	US 5295159 A	US 5311547 A	5384810	US 5388124 A	5396518	5398260	US 5428641 A	5475691 5443636	US 5506866 A	5533048	5537439	US 5598432 A	US 5619540 A	5621761	5659583	US 5684834 A
I rellis Subset Decoder Algorithm Based on a Pattern Recognition Scheme Unified Table Based Subset Decoder for the Viterbi Algorithm Soft decision decoder for use in receiver, has section to assign reliability-related value to so-r Data rate optimizing method for use in digital communication system, involves comparing rela Back mapping for digital communications	Method and apparatus for phase reference recovery in high speed fast turnaround modem Multidimensional, convolutionally coded communication systems	Adaptive blind equilization method and device Methods and systems for the simultaneous quantitative measurement of phase and amplitude	Constellation multiplexed inband secondary channel for voiceband modem	Multi-channel trellis encoder/decoder	Coded modulation for mobile radio	Coherent detection for QPSK modulation Carrier acquisition scheme for QAM and QPSK data	Coherent detector for QPSK modulation in a TDMA system	Superframes	Data bit to constellation symbol mapper	Radix mapping with variable number of symbols in mapping period	Multilevel coding using trellis-coded modulation and reed-solomon codes	Coordinated coding for digital transmission	Partial-response-channel precoding	Modulo decoder Complex signal possible and method therefore	Precoding scheme for transmitting data using optimally-shaped constellations over intersymbolic data.	Apparatus and method for communicating digital data using trellis coding with punctured conv	Method and apparatus for restoring multi level/phase modulation data	Device and method for utilizing zero-padding constellation switching with frame mapping	Voice activated date rate change in simultaneous voice and data transmission	Side-channel communications in simultaneous voice and data transmission	Apparatus and method for compensating for limiter induced non-linear distortion in a wireless	Decision directed algorithm control method	Equalizing received signal samples by receiving input in a first register at a first rate greater the	I ransmission system using block-coded or trellis-coded modulations, receiver and decoder for Radio with neak nower and handwidth efficient modulation using assummetric symbol constells.	Rotationally invariant trellis coding incorporating transparent binary convolutional codes	Tone canceller for QAM demodulator	Simultaneous analog and digital communication using fractional rate encoding
19941001 19940901 20050217 20041223 20000706	19880913 375/235 19871215 714/758	19890711 708/3 19890502 375/226	19900102 370/503			19911015 375/332			19930316 3/5/290			_	19941113 375/290			_		19950615 375/295						19970408 375/341	-		19971104 375/298

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		EAST SEARCH	2/23/06
L #	Hits	Search String	Databases
コ	1807	((digital or data) near2 communication) with (equalization or modulation or "symbol in	l interferen US-PGPUB
に	1472	1 and (constellation\$1 or channel\$1)	US-PGPUB
ធ	56	2 and (channel\$1 near2 gain)+C263	US-PGPUB
4	0	3 and (reliable near2 symbol\$1)	US-PGPUB
5	10	2 and (reliable near2 symbol\$1)	US-PGPUB
<u>6</u>	0	5 and (reliable CLM.)	US-PGPUB
ר7	ယ	5 and (reliability CLM.)	US-PGPUB

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US 20040128334 A1 US 20040120274 A1 US 200401109092 A1 US 20040100897 A1 US 20040096022 A1 US 20040091058 A1 US 20040039983 A1 US 20040038654 A1 US 20040028159 A1 US 20040021595 A1 US 20040013190 A1 US 20040013189 A1 US 2004001561 A1 US 20040001567 A1 US 20040001537 A1 US 20040001537 A1 US 20030235245 A1 US 20030235245 A1 US 20030235245 A1 US 20030223353 A1 US 20030223353 A1 US 200302215023 A1 US 200302215023 A1	US 20040267852 A1 US 20040258172 A1 US 20040252788 A1 US 20040252632 A1 US 20040252632 A1 US 20040194006 A1 US 20040194004 A1 US 200401910649 A1 US 20040151256 A1 US 20040141548 A1 US 20040136465 A1 US 20040136465 A1 US 20040136465 A1 US 20040136465 A1
CDMA transceiver techniques for wireless communications CDMA transceiver techniques for wireless communications Constellation mapping apparatus and method Gain control for a high definition television demodulator Carrier interferometry coding with aplications to cellular and local area networks Combining precoding with spectral shaping QAM receiver and method for constellations having at least sixteen symbols MIMO WLAN system Process for modulation and determination of the bit loading on a transmission channel Method and apparatus for generating a 64 state 4-D trellis code in DMT Orthogonal code division multiple access on return link of satellite links Method and system for determining relative positions of networked mobile communication de Receivers, methods, and computer program products for an analog modern that receives dat Wireless communication system having error-control coder and linear precoder Method and system for implementing a sigma delta analog-to-digital converter Method and system for hybrid decision feedback equalization Soft slicer in a hybrid decision feedback equalizar Method and system for the transmistion, reception and processing of 4-level and 8-level sign Apparatus, and associated method, for performing joint equalization in a multiple-input, multip System and method for transmitting highly correlated preambles in QAM constellations Method and system for decoding baseband orthogonal frequency division multiplex signals Multi-dimensional fractional number of bits modulation scheme Multiple input, multiple output system and method	Algorithm for computing distances to a received point in an ADSL system Method and system for data rate optimization in a digital communication system Demodulation for phase modulation Off-line broadband network interface Method and apparatus for multi-user multi-input multi-output transmission Partially coherent constellations for multiple-antenna systems Algebraic geometric code adapted to error bursts Trellis interleaver and feedback precoder Joint, adaptive control of equalization, synchronization, and gain in a digital communications r Signal estimation methods and apparatus Apparatus and method for transmitting and receiving data in a mobile communication system Software adaptable high performance multicarrier transmission protocol Data transmission/reception apparatus and method for achieving both multiplexing gain and c Equalisation apparatus and methods
	20041230 708/490 20041223 375/261 20041216 375/329 20041216 370/252 20041216 370/210 20041216 370/210 20041202 375/267 20040930 714/800 20040930 714/792 20040930 375/326 20040819 375/341 20040819 375/367 20040722 375/146 20040772 375/146 20040778 455/82

US 20030198288 A1 US 20030206559 Modems, methods, and computer program products for selecting an optimum data rate using Method and system for rate enhanced SHDSL Method of determining a start of a transmitted frame in a frame-based communications netwo 20031106 20031030

US 20030194000 A1 Distinguishing between final coding of received signals in a PCM modem

US 20030189976 A1 PCM upstream data transmission server

US 20030161258 A1 US 20030185319 A1 Apparatus, and associated method, for a multiple-input, multiple-output communications syst Modified branch metrics for processing soft decisions to account for phase noise impact on cl

US 20030159100 A1 Turbo code based incremental redundancy

US 20030156656 A1 US 20030156592 A1 Carrier based backwards compatible data neworking transmitter, receiver, and singal format Carrierless backwards compatible data neworking transmitter, receiver, and signal format

US 20030152022 A1 US 20030152023 A1 Orthogonal frequency division multiplexing system with superframe synchronization using con Orthogonal frequency division multiplexing system with differing control parameters correspondent

US 20030147343 A1 Linear space-time block code with block STTD structure

US 20030141938 A1 QUADRATURE VESTIGIAL SIDEBAND DIGITAL COMMUNICATIONS METHOD

US 20030138061 A1 20030112796 A1 Voice and data exchange over a packet based network with fax relay spoofing Voice and data exchange over a packet based network with timing recovery

US 20030084394 A1 Multi-frequency data transmission channel power allocation

US 20030076889 A1 US 20030076890 A1 Constellation mapping for modulated communications Method and apparatus for detection and decoding of signals received from a linear propagati

US 20030067992 A1 Optimal trellis code design for QPSK and higher order quadrature amplitude modulations

US 20030063664 A1 Adaptive thresholding for adaptive equalization

US 20030048857 A1 US 20030063654 A1 Space-time transmit diversity Space-time transmit diversity

US 20030035469 A1 US 20030039217 A1 Linear minimun mean square error equalization with interference cancellation for mobile com Apparatus and method for transmitting/receiving uplink transmission power offset and HS-DS

US 20030002593 A1 US 20030021358 A1 128-Ary signal constellations suitable for non-linear amplification

US 20020181389 A1 Channel estimation for wireless OFDM systems M-ary signal constellations suitable for non-linear amplification

US 20020141493 A1 US 20020163932 A1 US 20020172212 A1 Method of providing synchronous transport of packets between asynchronous network nodes Method and system for increasing data throughput in communications channels on an opport

US 20020136317 A1 Block coding for multilevel data communication Distinguishing between final coding of received signals in a PCM modem

US 20020131441 A1 Method of determining an end of a transmitted frame in a frame-based communications netw

US 20020118340 A1 US 20020105928 A1 20020090035 A1 Super-orthogonal space-time trellis codes, and applications thereof Method and apparatus for interference suppression in orthogonal frequency division multiples Range-extending system and spatial filter for enhancing hartmann-shack images and associa

US 20020080886 A1 US 20020075830 A1 Method for selecting frame encoding parameters in a frame-based communications network Adaptive modulation for fixed wireless link in cable transmission system

US 20020057717 A1 Method for selecting frame encoding parameters to improve transmission performance in a fr Method of sharing information among a plurality of stations in a frame-based communications

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20040330 714/792	Trellis interleaver and feedback precoder	US 6715124 B1
20040601 375/232	Method and apparatus for reduced state sequence estimation with tap-selectable decision-fer	6744814
20040629 714/755	Parallel turbo trellis-coded modulation	US 6757859 B1
20040706 370/516	Off-line broadband network interface	US 6760347 B1
20040720 370/493	Gateway with voice	US 6765931 B1
20040817 375/222	Distinguishing between final coding of received signals in a PCM modem	US 6778597 B2
20040907 341/155	Method and system for implementing a sigma delta analog-to-digital converter	US 6788236 B2
20040921 370/343	Method and apparatus for interference suppression in orthogonal frequency division multiplex	6795424
20041012 370/524	Transceiver training for DSL modems under TCM-ISDN interference	US 6804267 B1
20041109 375/233	HDTV channel equalizer	US 6816548 B1
	Method to transfer trellis code modulated digital data over a digital subscriber line, and related	US 6819719 B2
20041123 375/219	Linear block interleaver for discrete multi-tone modulation	US 6823002 B1
20050201 370/252	Off-line broadband network interface	US 6850493 B1
20050201 375/326	Voice and data exchange over a packet based network with timing recovery	US 6850577 B2
20050315 370/276	Home phone line network architecture	US 6868072 B1
20050322 375/260	Bit allocation among carriers in multicarrier communications	US 6870888 B1
20050405 709/251	Method for distributing sets of collision resolution parameters in a frame-based communicatio	US 6877043 B2
20050419 370/338	Method for selecting frame encoding parameters to improve transmission performance in a fr	US 6882634 B2
20050503 370/466	Method for selecting an operating mode for a frame-based communications network	US 6888844 B2
20050510 375/143	Method of determining an end of a transmitted frame in a frame-based communications netw	US 6891881 B2
20050510 375/264	Embedded signal constellations	US 6891896 B1
	Method of determining a collision between a plurality of transmitting stations in a frame-basec	US 6898204 B2
	DSL rate adaptation	US 6904082 B2
20050621 375/264	Method and system for increasing data throughput in communications channels on an opport	US 6909755 B2
20050705 375/229	Multiplier-free methods and apparatus for signal processing in a digital communication syster	US 6914934 B1
20050712 365/230.0	Constellation mapping apparatus and method	US 6917559 B2
	Method to transfer trellis code modulated digital data over a digital subscriber line, and related	US 20010017900 A1
	Method of determining a collision between a plurality of transmitting stations in a frame-basec	US 20010055311 A1
20020117 370/466	Method for selecting an operating mode for a frame-based communications network	US 20020006136 A1
20020131 370/389	Transceiver method and signal therefor embodied in a carrier wave for a frame-based commi	US 20020012343 A1
	Method for distributing sets of collision resolution parameters in a frame-based communicatio	20020026523
	Method of controlling data sampling clocking of asynchronous network nodes in a frame-base	20020027886
20020314 375/265	System and method of data communication using turbo trellis coded modulation combined wi	US 20020031190 A1
	Wireless communications	20020034263
		20020037055
	Method for providing dynamic adjustment of frame encoding parameters in a frame-based co	20020041570
	Method of enhancing network transmission on a priority-enabled frame-based communication	20020042836
	System and method for Huffman shaping in a data communication system	20020044073
20020302 373/261	Ost rate adaptation	US 20020031301 A1
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	B1 Interference detection and avoidance technique	B1 DSL rate adaptation	B1 Decision feedback equalizers, methods, and computer program products for detecting severe	Turbo code symbol interleaver	B1 Apparatus and method for digital data transmission using orthogonal codes	B1 System for acquiring, processing, and storing video data and program guides transmitted in d	B1 Method, system, and apparatus for unambiguous phase synchronization	B1 Modems, methods, and computer program products for falling back to a lower data rate proto					ucture supporting imbedded rate adaptive synchronous and	Serial-concatenated turbo codes	overing from errors in a tone rever			Coding scheme for cable modems	Voice and data exchange over a packet based network with timing recovery		associ		ray coding for bandwidth and		ata cor									•	6704324 B1 Apparatus and method for transmission of voice band signals over a DSL line 2004030
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Mapper for high data rate transmission through channels subject to robbed bit signalling Simultaneous analog and digital communication using fractional rate encoding Simultaneous analog and digital communication using partitioning of bits into words Spectral and power shaping mapper for high data rate signalling Technique for improving the blind convergence of a two-filter adaptive equalizer	Fractionally-spaced adaptively-equalized self-recovering digital receiver for amplitude-Phase System for acquiring and processing video data and program guides transmitted in different c System for forming program guides and video data for storage and transmission in different c Generalized multimodulus technique for blind equalization	Complementary encoding and modulation system for use in an orthogonal frequency division Lower overhead method for data transmission using ATM and SCDMA over hybrid fiber coax Method and apparatus for variably allocating upstream and downstream communication spec Concise storage and expansion of signal constellations in PCM space for high speed data co	Nested shell mapping System and method for using circular constellations with uncoded modulation Method and device for generating signal constellations in PCM space for high speed data cor Data communication system and method therefor Reduced complexity hit allocation to subchannels in a multi-carrier high speed data transmiss.	System and method for training a plurality of equalizers and a modem employing the system. Windowing technique for blind equalization Non-invasive digital cable test system Wireless communication method and device with auxiliary receiver for selecting different chains of the communication of the communication method and device with auxiliary receiver for selecting different chains of the communication method and device with auxiliary receiver for selecting different chains of the communication method and device with auxiliary receiver for selecting different chains of the communication method and device with auxiliary receiver for selecting different chains of the communication method and device with auxiliary receiver for selecting different chains of the communication method and device with auxiliary receiver for selecting different chains.			Automatic constellation phase recovery in blind start-up of a dual mode CAP-QAM receiver Non-invasive digital cable test system Digital subscriber line modem initialization Translation table design for a PCM modem Distinguishing received A-law and .mulaw signals in a PCM modem Constellation design for a PCM modem Method and apparatus for variably allocating upstream and downstream communication spec Rate adaptive digital subscriber line (RADSL) modem Communication system utilizing Reed-Solomon code to achieve auto frame synchronization a
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US 20050201478 A1 Modulation in a mobile telecommunications system US 20040224651 A1 Method and system for equalization in a communications system US 20040062318 A1 Method and apparatus for receiving and deshuffling shuffled data US 20040062318 A1 Multi-pass phase tracking loop with rewind of future waveform in US 20030123595 A1 Multi-pass phase tracking loop with rewind of current waveform in US 20030112914 A1 Multi-pass phase tracking loop with rewind of current waveform in US 2003001908 A1 Partially filling block interleaver for a communication system US 2003001974 A1 Blind equalization method for a high definition television signal in th US 2003001974 A1 Method for equalizing a VSB high definition television channels US 20020199153 A1 Sampling method for use with bursty communication channels US 20020196862 A1 Apparatus and method of CTCM encoding and decoding for a dig	US 4891806 A US 4847797 A US 4827431 A US 4771438 A US 4713817 A US 4713817 A US 4709581 US 20050036565 A US 20040258172 A US 20040258172 A DE 19962162 A Results of search set: 2 and (channel\$1 near2 gain) Constellation multiplexed inband secondary channel for voiceband modem and device Adaptive blind equilization method and device Wethod and systems for the simultaneous quantitative measurement of plants for the simu
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Abstract	